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# 32-4144: Recombinant Human Mannose-6-Phosphate Receptor

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| **Alternative Name :** | Mannose-6-Phosphate Receptor (Cation Dependent),CD-MPR,MPR46,CD Man-6-P Receptor,MPR 46,46-KDa Mannose 6-Phosphate Receptor,MPR-46,SMPR,Cation-Dependent Mannose-6-Phosphate Receptor,Mr 46,000 Man6PR,Small Mannose 6-Phosphate Receptor,46 KD |

## Description

Source : Escherichia Coli. M6PR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 182 amino acids (27-185) and having a molecular mass of 20.3kDa.M6PR is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Mannose-6-Phosphate Receptor (M6PR) belongs to the P-type lectin family. P-type lectins play a vital role in lysosome function through the specific transport of mannose-6-phosphate-containing acid hydrolases from the Golgi complex to lysosomes. The M6PR protein functions as a homodimer and needs divalent cations for ligand binding. Lysosomal enzymes carrying phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the ensuing receptor-ligand complex is transferred to an acidic prelyosomal compartment where the low pH mediates the dissociation of the complex.

## Product Info

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| **Amount :** | 10 µg |
| **Purification :** | Greater than 85.0% as determined by SDS-PAGE. |
| **Content :** | The M6PR solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MGSTEEKTCD LVGEKGKESE KELALVKRLK PLFNKSFEST VGQGSDTYIY IFRVCREAGN HTSGAGLVQI NKSNGKETVV GRLNETHIFN GSNWIMLIYK GGDEYDNHCG KEQRRAVVMI SCNRHTLADN FNPVSEERGK VQDCFYLFEM DSSLACSPEI SH. |